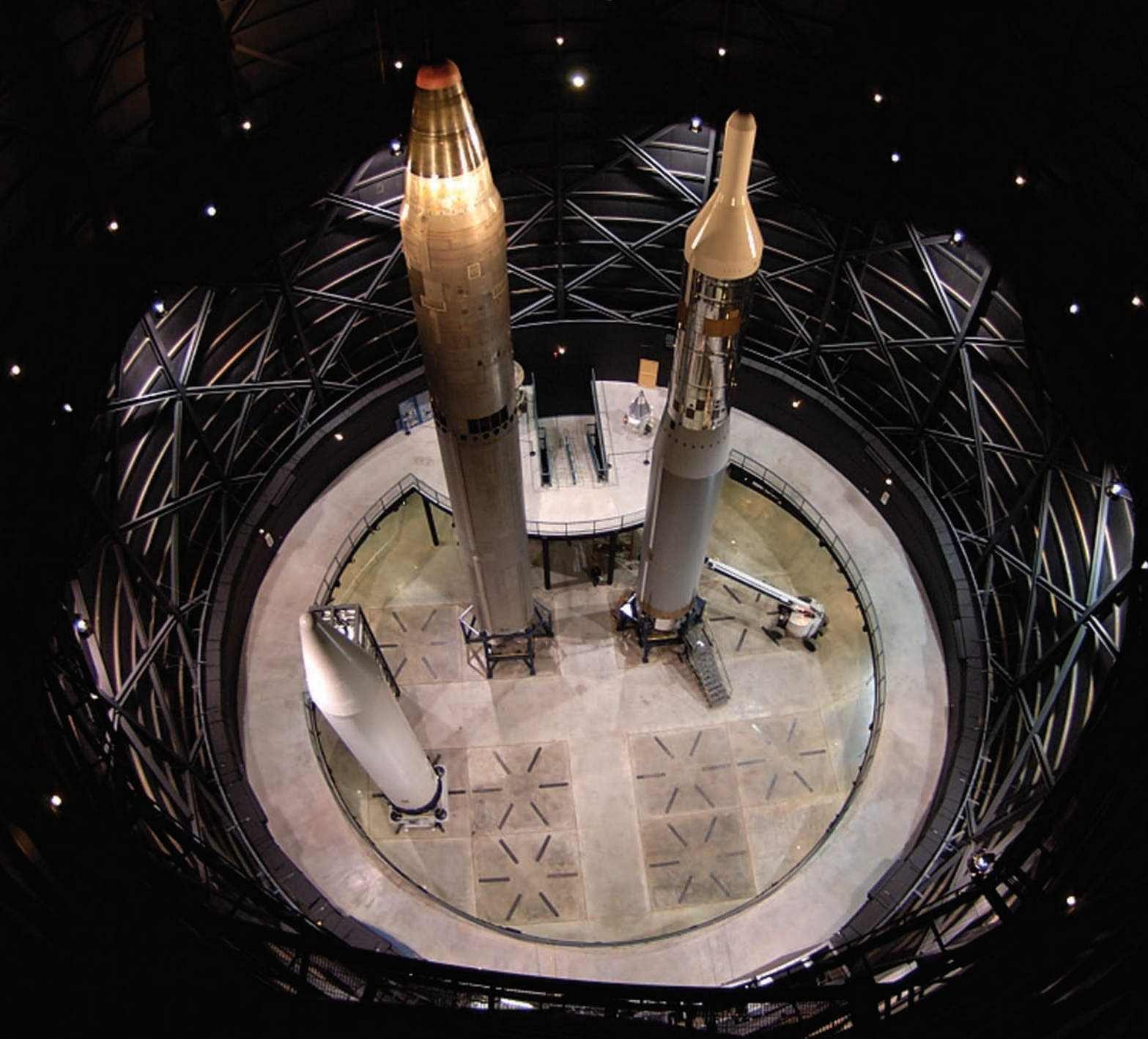


2004 accomplishments



**NATIONAL MUSEUM
OF THE UNITED STATES AIR FORCE™**

**UNITED STATES AIR FORCE
HERITAGE PROGRAM
BOARD OF DIRECTORS**

The United States Air Force Heritage Program Board of Directors meets throughout the year to discuss museum activities and issues. The Board of Directors is made up of 12 members, including:

Permanent Voting Members

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Maj. Gen. Charles Metcalf, USAF (Ret.)
*Director,
National Museum
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Lt. Gen. Michael Nelson, USAF (Ret.)
Lt. Gen. Tom Stafford, USAF (Ret.)

director's message

When 2004 arrived at the U.S. Air Force Museum, we couldn't imagine matching the incredible 2003 we had just experienced. After all, we had enjoyed an historic year, welcoming President George W. Bush and 30,000 visitors for a public Fourth of July event on museum grounds; opening the 200,000 square foot Eugene W. Kettering Building; celebrating the Centennial of Flight through numerous major events; executing a comprehensive realignment of our galleries and rolling out the B-2 "Spirit of Freedom" stealth bomber.

While we recall 2003 fondly, 2004 proved to be a very important year in its own right for continuing the momentum of moving the museum forward as a national institution with a world-class collection and reputation.

In a major ceremony on Oct. 14, we publicly announced our formal name change to the National Museum of the United States Air Force, underscoring our national status and global profile. Signifying the prominence of the occasion, Air Force Chief of Staff Gen. John P. Jumper and Air Force Materiel Command Commander Gen. Gregory S. Martin joined us as ceremony speakers.

We continued to progress on our ambitious, multi-phase expansion, opening the Missile and Space Gallery to the public. Standing 140-feet high and containing 12,500 square feet, the missile silo-shaped structure presents the story of the Air Force's role in strategic deterrence and the nation's advance into space during and beyond the Cold War by exhibiting the museum's collection of Intercontinental Ballistic Missiles, satellite boosters and space equipment.

During the year, we bolstered our already formidable aircraft collection by adding to our galleries a pair of legendary war birds, the SPAD XIII and the A6M2 Japanese Zero. The SPAD XIII served as America's fighter aircraft of choice in World War I, and the iconic Zero symbolizes Japanese air power in the Pacific Theatre in World War II.

Key 2004 figures confirm our forward march. During the year, we held more than 800 special events; administered 1,229 education programs reaching more than 87,000 students, teachers and adults; recorded nearly 70 million Web site hits and welcomed more than a million visitors again. We continue to reach a combined audience of millions on both a national and global level.

In this 2004 annual report of the National Museum of the United States Air Force, you will find greater details of the exciting progress and growth we continue to experience. We hope that you visit us soon, and often, to experience personally the mission, history and evolving capabilities of your United States Air Force.

Charles D. Metcalf
Maj. Gen., USAF (Ret.)
Director



Visit us on the Web!
www.wpafb.af.mil/museum

In 2004 the museum's web site got a new look! Find out about upcoming events, exhibits, aircraft on display and more by visiting www.wpafb.af.mil/museum. Join the nearly 70 million people worldwide who have discovered the National Museum of the United States Air Force online.

year in review

This year was an important one for the National Museum of the United States as it secured its place as one of the top military aviation museums in the world. On Oct. 14, Air Force Chief of Staff General John P. Jumper participated in a redesignation ceremony, affirming the museum's importance within the Air Force. In addition, museum staff opened the Missile & Space Gallery, readied new and reconfigured existing exhibits and aircraft, met the needs of more than a million visitors and hosted nearly 800 special events. Staff members helped raise more than \$5,000 during an aircraft pull as part of the annual Combined Federal Campaign. The following pages list the major achievements of each of the museum's divisions.

COLLECTION MANAGEMENT

The Collection Management Division implemented a new barcoding system for accountability of the museum's historical property. The staff coordinated the loan and shipment of a major art display, "A Retrospective on 100 Years of Powered Flight," conducted a site visit and inventory at the Enlisted Heritage Hall, Maxwell Air Force Base; prepared and conserved 14 pieces of historic aircraft nose art for exhibition; and worked extensively with the Research and Exhibits Divisions on the installation of new exhibits. The division also oversaw the following acquisitions:

- Vertical stabilizer from the P-47 aircraft in which Medal of Honor recipient and World War II Pacific theater ace Col. Neel E. Kearby lost his life in combat in 1944. On display in the Air Power Gallery.
- Painting, flying uniforms and memorabilia donated by veterans of the China National Aviation Corporation, the group that pioneered aviation routes over the Himalayas during World War II.
- Uniform items, decorations and personal memorabilia donated by the son of World War II and Korean War air ace Col. Francis S. Gabreski, USAF (Ret.).
- Kellett K-2 Autogiro, the first autogiro tested by the Army Air Corps at Wright Field in 1931. On display in the Early Years Gallery.
- Paintings "Guns Hot" and "Rollin In" by Darby Perrin presented to the museum by the AC-119 Gunship Association. On display in the museum's office area.
- Chinese Runway Roller, donated by the Information Office of the People's Government of Yunnan Province, China. On display in the Air Power Gallery.
- Inertial Upper Stage space vehicle, donated by Boeing Aerospace Operations. The museum plans to exhibit the item in its Missile and Space Gallery.
- World War II uniform items belonging to Medal of Honor recipient Lt. Col. Jay Zeamer, USAF (Ret.), donated by Col. and Mrs. Zeamer.
- Maps, Blood Chits and Decorations from the China Burma India Theater during World War II, donated by the 27th Troop Carrier Squadron Foundation.
- Prisoner of War memorabilia and German items from the collection of Mr. Lloyd W. Kilmer, a B-24 pilot and prisoner of war during World War II.

EXHIBITS

Museum expansion and realignment have kept the Exhibits Division busy over the past few years. Creating and updating signage, positioning exhibits and aircraft, and redesigning cases and displays were just a few of the division's tasks.

A stone roller is displayed near the Curtiss C-46D exhibit in the Air Power Gallery. Rollers of this type were used to compress gravel runways in China for use by Allied aircraft during World War II.



EDUCATION

The museum's mission is educational in nature. In keeping with that mission, the Education Division staff provided 1,229 programs throughout 2004, serving nearly 87,000 teachers, students, youth groups, families and adults. This year's programs included:

- Audio-Visual Loan Program
- Behind the Scenes Tours
- Dayton Air Show Youth Program
- Elderhostel Programs
- Family Days
- Guided Tours for School Groups
- Hands-on Tours for School Groups
- Home School Days
- Information Scavenger Hunts
- Kite Day
- National Congress on Aviation and Space Education
- National Science Teachers Association Regional Conference
- Project READ at Sinclair Community College
- Project SOAR Teacher Aerospace Education Orientation Seminars
- Project SOAR Teacher Summer Institute
- Read Across America
- Space Day
- Space Day 2005 Design Challenge
- Springfield Fun Fest
- Storytime
- Student Aviation Art Competition and Exhibition
- Tech Fest at Sinclair Community College
- University of Dayton Institute for Learning in Retirement
- USAF Heritage Tours
- Wright Brothers' First Flight Day

In addition, the division developed a number of new programs, including STARBASE Tour, Ohio's Contributions to Flight, First Century of Flight, and Junior ROTC and Civil Air Patrol Cadet Tours.

OPERATIONS

The Operations Division oversaw the museum's day-to-day operations, assisting with nearly 800 indoor and outdoor special events and opening the Missile and Space Gallery to visitors.

The division also developed and published a comprehensive security manual and implemented a major upgrade of fire detection and suppression and security systems to maintain a safe environment for employees and visitors.

PUBLIC AFFAIRS

Projecting the museum's mission and activities to the world is the role of the Public Affairs Division. In 2004, the division continued to promote the museum's story by supporting media, responding to information queries, producing informational materials and addressing groups.

Public affairs worked with a variety of prominent media members and outlets over the past year, including CNN, BBC, NBC Nightly News, Esquire Magazine, Discovery Channel, the History Channel, National Geographic, The Associated Press, Britain's FlyPast and Aeroplane magazines, Japanese NHK Broadcasting, Rand McNally Atlas, Scripps Howard News Service, French History Aviation Magazine, Air and Space Magazine, Popular Science Magazine and Universal Studios. Also, a number of Asian media outlets reported on the Chinese stone roller donation.

The public affairs team also assisted with media events at the museum, including press conferences held by officials such as Ohio Congressman Michael Turner.

- Photograph albums, logbooks and documents relating to World War I aviator John Cassell Henderson, donated by Ms. Annabelle Rupert.

Updates to the Early Years Gallery included redesigns of the Lighter-Than-Air, Heavier-Than-Air, Billy Mitchell and World War I training displays. The Air Power Gallery saw exhibits moved to accommodate the Japanese Zero and Chinese Stone Roller and the addition of display cases within the Pearl Harbor and Neel Kearby exhibits.

In the Modern Flight Gallery, displays were refurbished throughout the Korean War area. The connector between Modern Flight and the

Cold War Galleries now includes the "Berlin: A City Held Hostage" exhibit, and new displays and artifacts are being added regularly to the Cold War and Missile and Space Galleries. Finally, the division constructed the B-52 nose art exhibit, which was first displayed in the Hall of Honor and later moved to the Cold War Gallery.



RESEARCH

The Research Division responded to 4,629 requests from museum staff, governmental organizations and the public. Staff researched and completed 60 exhibit and 11 colors, markings and insignia packages for museum projects. The division also acquired 454 archival donations, including:

- Collection of films, images and other materials relating to Gen. Richard C. Lindsay, a former commander of the Allied Air Forces Southern Europe (NATO), donated by his grandchildren, Fereol de Gastyne and Kathleen Lindsay Noble.
- Collection of Autogiro-related documents and photographs that complement the museum's recently acquired Kellett Autogiro, from Mr. Al Letcher.
- Scrapbook with photographs and documents from Harry Hiram Sherer, Co. 2, 1st Air Service Mechanics Regiment, illustrating U.S. Army Air Service enlisted personnel activities in France during World War I, donated by Ms. Anna P. Lugg.
- Collection of photographs and documents from Lt. Lloyd E. Graybiel of the 66th Balloon Co., while at the U.S. Army Balloon School, Arcadia, Calif., during World War I, from Ms. Joyce G. Temby.
- John A. Macready — the famous U.S. Army Air Service aviator of the Interwar years who set altitude records and made the first non-stop flight across the United States — logbook and journal, "Nonstop attempts, 1922," donated by his daughter, Ms. Sally Macready Wallace.
- Collection of photographs and negatives of early aircraft, along with a collection of aircraft-related books and publications, from Ms. Dorothy Thompson.
- Collection of archival materials related to Col. Francis S. Gabreski, an ace in World War II and a jet ace in Korea, donated by his son Col. Donald Gabreski, USAF (Ret.).

(top) A Mitsubishi A6M2 Zero rejoined the museum's World War II aircraft collection in late August. (middle) The "Berlin: A City Held Hostage" exhibit was completed during the year, and artifacts and information can be seen in the connector between the Modern Flight and Cold War Galleries. (bottom) The Restoration Division repainted the P-47D "Fiery Ginger" in 2004. The aircraft is on display in the Air Power Gallery.

- Transfer of Gen. Ira C. Eaker, commander all U.S. Army Air Forces units in Europe during World War II, materials from Maxwell Air Force Base.
- Recordiogram record, a personal message recorded as a service by the Red Cross, October 1945, from Ms. Linda Mueller.
- Color slides of QU-22B operations out of Nakhom Phanom Royal Thai Air Base, 1971, from Mr. Kenneth S. Harvell.
- Sixty-five vinyl albums spanning over three decades of music recorded by various U.S. Air Force bands, donated by Lt. Col. Nevin L. Lantry, USAF (Ret.).
- Color photograph of the American Volunteer Group, better known as the Flying Tigers, donated by Jonathan and Michael Abel, in honor of their father, Walter Abel.

RESTORATION

The Restoration Division remained busy as they repainted, restored and placed a number of aircraft on display. The staff completed restoration work on the following aircraft: AT-38, RB-57D, SPAD XIII, F-86F, Avro 504, A-24, Spitfire MK V, P-47D, CF-100 and Kellett Autogiro. A V-1 rocket motor stand was designed and placed on display as well.

Work on the museum's newest exhibit space — the Missile and Space Gallery — continued. The Restoration Division replaced the structural skins, painted and placed the Jupiter missile on display. Mounting bases were designed and built for the Titan I and Titan II missiles, which also were restored and displayed in the gallery. The Bomark, Mace and Matador missiles were moved from their locations outside the museum to the restoration hangar. Work is progressing on those items.

Restoration staff also participated in 21 aircraft openings, nine photography shoots and 23 Behind the Scenes Tours.

SPECIAL EVENTS

Staff members in the Special Events Division supported nearly 800 events, including:

- The Wings & Things Guest Lecture Series brought eight speakers to the museum to share their perspectives on USAF heritage. Lecturers included Kirk House, a well-known historian of early aviation; H. Keith Melton, a professor at The Centre for Counterintelligence and Security Studies in Alexandria, Va.; George Marrett, an author and a former experimental test pilot; Peter Wright, a member of the American Volunteer Group, also known as the Flying Tigers; Sally Macready Wallace, an author and daughter of aviation pioneer John Macready, who flew high-altitude experimental flights in the Inter-war years; Thomas C. Griffin, a navigator during the 1942 Doolittle Tokyo Raid; Col. (Ret.) George E. "Bud" Day, the Air Force's most highly decorated officer; and Sergei I. Sikorsky, Sikorsky Aircraft consultant and son of Igor Sikorsky, one of the great aviation pioneers of Europe and America.
- The U.S. Air Force Band of Flight partnered with the museum to present five concerts, with more than 1,000 people attending each event.
- An art exhibit opening on Jan. 29 brought several members of the American Society of Aviation Artists to the museum. The exhibit featured nearly 80 dramatic pieces of art by more than 50 world-renowned artists.

(from top to bottom) After nearly 14,000 cumulative hours of work, the restoration team completed the SPAD XIII, now on display in the Early Years Gallery. In addition, that division added the Jupiter and Titan missiles to the Missile and Space Gallery. The U.S. Band of Flight performs during the Glenn Miller Tribute in August. Members of the museum's all-female team pull a 60,000-pound fighter jet during the Sixth Annual Combined Federal Campaign Aircraft Pull.



- Several officials visited the museum March 3-4 for the Space Commission Hearings. The second public hearing of the President's Commission on Moon, Mars and Beyond, chaired by Edward C. "Pete" Aldridge, included presentations from an array of education, industry and military experts.
- On June 25, a number of U.S. and Chinese dignitaries attended the closing of "The Memory of History" exhibit, which chronicled the bond formed by the United States and China during World War II. Yunnan Province, People's Republic of China, presented the museum with an 11,000-pound stone roller to be placed on permanent display within the museum.
- In July, the U.S. Air Force's NASCAR show car was temporarily put on display at the museum.
- A memorial dedication on Aug. 6 honored Purple Heart recipients from all branches of the U.S. military. The monument can be seen by visitors who walk through the museum's Memorial Park.
- Brig. Gen. (Ret.) Paul Tibbets, who piloted the B-29 "Enola Gay" on the atomic mission over Hiroshima, Japan, spoke during a dinner on Aug. 14. The event also featured Michael Vickio, the historian for the Manhattan Project, and John Coster-Mullen, the historian and author for the 509th Composite Group.
- The Giant Scale Radio-Controlled Model Aircraft Fly-In over Labor Day weekend brought more than 200 model aircraft pilots to the museum grounds. The event was sponsored by the Dayton Giant Scalpers Club of the International Miniature Airplane Association.
- Forty Air Force historians and museum personnel attended a curatorial course organized and conducted by museum staff.
- Chief of Staff Gen. John P. Jumper spoke Oct. 14 at a ceremony redesignating the museum as the National Museum of the United States Air Force. See back of booklet for photographs.



VOLUNTEERS

If you could look behind the scenes on a typical day at the museum, you would see first-hand the dedicated efforts of more than 500 volunteers. These hard-working individuals monitored galleries, manned information desks, assisted with aircraft restoration and artifact collection, and completed administrative duties. All together, they contributed 86,206 volunteer hours throughout 2004, worth \$1,481,881 and equivalent to 41 person-years of productivity.

(top) A monument honoring recipients of the Purple Heart is unveiled during a ceremony in August.
(bottom) A museum volunteer demonstrates an aerospace principle to children during Family Day.

TEAM OF THE QUARTER

The museum directorate names a Team of the Quarter to recognize distinguished service and achievements on the part of the staff. Honorees for 2004 were (from left to right) Education, Audiovisual, Division Chiefs, and staff who assisted with the Redesignation Ceremony. In the first quarter, the Education Division provided programming for more than 35,000 adults and children while the Volunteer program staff worked to increase the volunteer team to 500 people. The three-man Audiovisual team is found at the museum day or night, providing behind-the-scenes support for hundreds of special events. Museum division chiefs performed a crucial role during a manpower assessment initiative, providing critical information and statistics that resulted in a successful manpower standard. Finally, much of the staff was recognized for their assistance in planning and conducting the Redesignation Ceremony.



vision for the future



These are historic times at the National Museum of the United States Air Force. The institution is in the midst of a multi-phase, long-term expansion program that will dramatically increase its size and stature upon completion.

Museum officials developed expansion plans in response to a pressing need for greater gallery space brought about by an ever-growing historical collection. The expansion program kicked off publicly with the official groundbreaking for a new third building in 2001. In 2003 the 200,000-square-foot Eugene W. Kettering Building housing a Cold War Gallery opened to the public.

As the centerpiece of the museum's \$36 million expansion vision, the Kettering Building houses the world's only permanent public exhibit of a B-2 stealth bomber. Other powerful platforms conveying aerospace power include the B-36, B-1B, F-15, RB-47, F-117 stealth fighter, F-15A, A-10 and F-16, among others.

In 2004 the museum opened to the public its second expansion phase, the Missile and Space Gallery. Standing 140 feet high, the \$3.2 million facility contains more than 12,500 square feet. Currently, the gallery features three of the museum's collection of Intercontinental Ballistic Missiles, with plans to add seven more missiles and satellite boosters.

Resembling a missile silo in physical design, the Missile and Space Gallery connects physically and thematically with the Cold War Gallery to tell the story of the Air Force's key role in Soviet containment and strategic deterrence during the Cold War. The gallery also explores the service's historic and ongoing contributions to the development of space-based capabilities.

Additional planned expansion phases include a Presidential Gallery, enabling the museum to move its popular presidential aircraft collection from Area B of Wright-Patterson Air Force Base to the museum's main facility; a separate space gallery, an education center to better accommodate the museum's rapidly growing education program; a collection management facility; and a new entrance and additional parking.

The illustration above shows the museum's plans for a fourth hangar, which will house the presidential aircraft collection and a space gallery. The current museum complex includes 17 acres of indoor exhibit space.



presenting the ...

NATIONAL MUSEUM OF THE UNITED STATES AIR FORCE™

October 14 ushered in a new era at the museum.

The United States Air Force Museum ceased to be,
and the National Museum of the United States Air Force was born.

The institution announced the name change to the public during a special ceremony. Gen. John P. Jumper, Air Force Chief of Staff, delivered the keynote address with Gen. Gregory Martin, commander of Air Force Materiel Command, and Maj. Gen. (Ret.) Charles D. Metcalf, museum director, also speaking.

The museum's new name underscores its status as the official trustee of the Air Force story, confirms the museum's national character and world-class collection, and signals its rapidly growing facilities and global visibility.



(left) Air Force Chief of Staff Gen. John P. Jumper speaks during the Redesignation Ceremony while Air Force Materiel Command Commander Gen. Gregory S. Martin and Museum Director Maj. Gen. (Ret.) Charles D. Metcalf look on. (right) A sign revealing the museum's new name — National Museum of the United States Air Force — is unveiled.